

AUDI P1648: DATA BUS POWERTRAIN MALFUNCTION

OVERVIEW

Severity	:	<div><div></div></div> High
DIY Difficulty Level	:	<div><div>Intermediate</div></div>
Repair Cost	:	\$100-\$300
Can I Still Drive?	:	Yes

What Does The Audi P1648 Code Mean?

Ignition on, the ECM detected a data bus malfunction (software). To achieve optimal anti-theft protection for the vehicle, an anti-theft immobilizer is installed. The anti-theft immobilizer is a system for enabling and locking the Engine Control Module (ECM).

So that this system cannot be circumvented, it is necessary to perform adaptation of the anti-theft immobilizer using the Vehicle Diagnostic and Information System VAS 5052 in the On Board Diagnostic (OBD) function. The great availability of equipment options makes it necessary to adapt the Engine Control Module (ECM) to the vehicle (e. g. throttle valve control module or cruise control system). This "writing" function is not possible with the generic scan tool.

What Are The Potential Causes Of The Audi P1648 Code?

- Ground between engine and chassis may be broken
- Throttle position sensor may have failed
- Accelerator Pedal Position Sensor 2 has failed
- Throttle position sensor wiring may have shorted
- Faulty voltage supply
- ECM has failed

Reference Sources

[Audi A4 Avant 95-01 Service Repair Manual](#), page 62.